

PRODUCT:2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS  
MSDS NO.: 5833

0005833 EPTAM 2.3-G LEB  
07/10/1998

Formula: NOT GIVEN

Manufacturer

Lebanon Chemical Corp.  
P.O. Box 180 Phone: 800-233-0628  
Lebanon, PA USA 17042-0180 Emergency: 800-424-9300

Supplier

Lebanon Chemical Corp.  
P.O. Box 180 Phone: 800-233-0628  
Lebanon, PA USA 17042-0180 Emergency: 800-424-9300

Physical/Chemical Characteristics

Boiling Point .....: NG  
Melting Point .....: NG  
Freezing Point .....: NG  
Pour Point .....: NG  
Softening Point .....: NG  
Specific Gravity .....: EQ .48 30 lbs/ft3  
Vapor Pressure .....: NG  
Vapor Density .....: NG  
Percent Volatiles .....: NG  
Evaporation Rate .....: NG  
pH .....: NG  
Molecular Weight .....: NG  
Viscosity .....: NG  
Solubility in Water ..: NOT GIVEN  
Odor/Appearance/Other Characteristics:  
Grey-tan granular solid / Specific Gravity: Loose bulk density

Fire and Explosion Data

Closed Cup Flash Pt. .:	NA	Not applicable
Open Cup Flash Point .:	NA	Not applicable
Fire Point .....	NG	
Auto Ignition .....	ND	No data
Lower Explosion Limit :	NA	Not applicable
Upper Explosion Limit :	NA	Not applicable

Shipping Regulations

UN/NA Number: NG  
DOT Hazard Class: NG  
Shipping Label: NOT GIVEN  
Shipping Name: NOT GIVEN

Prepared

Preparer's Name & Title: NOT GIVEN  
Preparation Date: 5/06/98

Component(s):

S-ETHYL DIPROPYLTHIOCARBAMATE  
OSHA Pel: M+ ppm  
ACGIH TLV: NG ppm  
STEL: NG ppm

PRODUCT: 2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

Percent of Product: EQ 2.3% CAS No.: 759944  
Note: ACTIVE INGREDIENT / EPTC / PEL: NOT LISTED

CORN COBS

OSHA Pel: N\* ppm  
ACGIH TLV: NG ppm  
STEL: NG ppm  
Percent of Product: EQ 95.1% CAS No.: NOT GIVEN  
Note: PEL: NOT LISTED

MINERAL SEAL OIL (HYDROTREATED ATMOSPHERIC DISTILLATE)

OSHA Pel: NG ppm  
ACGIH TLV: NG ppm  
STEL: NG ppm  
Percent of Product: EQ 2.6% CAS No.: NOT GIVEN

Text Section(s)

-----  
SECTION 1 NAME & HAZARD SUMMARY  
-----

MATERIAL NAME: EPTAM(R) 2.3-G

HAZARD SUMMARY (AS DEFINED BY OSHA HAZARD COMM. STD., 29 CFR 1910.1200):

PHYSICAL HAZARDS: None  
HEALTH HAZARDS: Irritant (eye), harmful (cholinesterase inhibitor)

Read the entire MSDS for a more thorough evaluation of the hazards.

REV.: E

ISSUE DATE: 05/06/98

MEDICAL: (800) 327-8633  
CHEMTREC: (800) 424-9300

MANUFACTURER'S NAME AND ADDRESS:

LEBANON SEABOARD CORPORATION  
PO BOX 180  
LEBANON PA 17042-0180  
INFORMATION: (800) 532-0090

-----  
SECTION 2 INGREDIENTS  
-----

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. ca = approximately.

PRODUCT:2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

-----  
SECTION 3 PHYSICAL DATA  
-----

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

-----  
SECTION 4 FIRE AND EXPLOSION HAZARD DATA  
-----

FLASH POINT (AND METHOD): Not applicable

AUTOIGNITION TEMPERATURE: No data

FLAMMABLE LIMITS (STP): Not applicable

FIRE HAZARD: Not considered a fire hazard. However, under fire conditions, it may decompose to give off toxic materials.

FIREFIGHTING TECHNIQUE: As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear a full face self-contained breathing apparatus and impervious protective clothing. Use standard firefighting techniques to extinguish fires involving this material - use water spray, dry chemicals or carbon dioxide.

-----  
SECTION 5 REACTIVITY DATA  
-----

STABILITY: Stable under normal conditions.

INCOMPATIBILITY: Relatively nonreactive. Noncorrosive to materials commonly used in the construction of process equipment, storage and shipping containers.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION PRODUCTS: Toxic materials.

HAZARDOUS POLYMERIZATION: Will not occur.

-----  
SECTION 6 HEALTH HAZARD ASSESSMENT  
-----

GENERAL: The active ingredient produces cholinesterase inhibition in experimental animals. Symptoms of cholinesterase inhibition may include salivation, sweating, headache, nausea, muscle twitching, tremors, incoordination, blurred vision, tears, abdominal cramps, diarrhea and chest discomfort. The following toxicity data refer to the Eptam 2.3-G formulation.

INGESTION: The acute oral LD50 in rat is above 5 g/kg when extrapolated from data on the technical material (98% active ingredient). A single dose of this

PRODUCT: 2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

product is classified as "practically nontoxic" by ingestion.

**EYE CONTACT:** This material was moderately irritating in rabbit eye studies. A similar degree of irritation will probably occur after human eye contact.

**SKIN CONTACT:** This material was nonirritating in rabbit dermal irritation studies. No irritation is likely to develop following contact with human skin.

**SKIN ABSORPTION:** The acute dermal LD50 in rabbits is above 5 g/kg. This material is classified as "practically nontoxic" by skin absorption. A single application of 5 g/kg did not produce signs of toxicity in rabbits.

**INHALATION:** The 4-hour LC50 of the active ingredient exceeds 0.62 mg/l. Since this product is a granular formulation, significant inhalation exposure is unlikely to occur.

**OTHER EFFECTS OF OVEREXPOSURE:**

\*\*\* Laboratory tests in animals have shown that exposure to the active ingredient in this product, followed by ingestion of alcohol, may cause an adverse reaction, including low blood pressure, rapid heart beat, and flushing of the skin. Consumption of alcohol during and after exposure to this product should be avoided.

The active ingredient in this material has produced adverse effects on blood clotting in laboratory animals, but these effects were not seen in extensive studies of exposed workers. Signs of adverse effects of blood clotting include unusual bruising or a bleeding tendency. The active ingredient in this material has caused nerve, muscle, and heart muscle changes in laboratory animals, but these effects were not seen in extensive studies of exposed workers. Signs of nerve damage include weakness, numbness and tingling sensation in hands and feet, muscle cramps and loss of motor function.

**FIRST AID PROCEDURES:**

CALL A POISON CENTER, 1-800 FASTMED (327-8633), OR A PHYSICIAN IMMEDIATELY

If a known exposure occurs or is suspected, immediately start the recommended procedures below. Simultaneously contact a Poison Center, a physician or the nearest hospital.

**NOTE:** BE SURE TO ADVISE THE PERSON CONTACTED THAT AN INGREDIENT OF THIS PRODUCT MAY BE A CHOLINESTERASE INHIBITOR. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

**SKIN:** Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.

**EYES:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

PRODUCT: 2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

**INGESTION:** Give 1 or 2 glasses of water to drink and refer person to medical personnel. (Never give anything by mouth to an unconscious person.) If vomiting does occur, give fluids again. Have a physician determine if the condition of the patient will permit induction of vomiting or evacuation of stomach.

**INHALATION:** Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

**NOTE TO PHYSICIAN:** If cholinesterase inhibition is suspected, atropine by injection is antidotal. Pralidoxime chloride (2-PAM, Protopam) is not a recommended antidote.

\*\*\* Thiocarbamates have been shown in laboratory animals to cause a disulfiram (ANTABUSE(R))-type reaction in combustion with alcohol.

-----  
SECTION 7 SPILL OR LEAK PROCEDURES  
-----

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedures:

1. Sweep up or vacuum spilled material being careful not to create dust, and shovel sweepings into an open drum.
2. Generously cover the contaminated areas with common, household detergent (e.g. TIDE, registered trademark Proctor & Gamble Company). Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders.
3. Spread absorbents on the slurry liquid and shovel mixture into the open drum.
4. Repeat #2 and 3 if necessary.
5. If practical, flush the area with water to a sewer serviced by a wastewater treatment facility.
6. Rinse with a small amount of water and use absorbent to collect the wash solution. Shovel into the open drum.
7. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call, day or night, 800-424-9300, CHEMTREC.

\*\*\* **DISPOSAL METHOD:** This product contains EPTC (CAS 759-94-4), and effective August 9, 1995, EPA has classified EPTC, when discarded, as a

PRODUCT:2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

hazardous waste, number U390.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in sanitary landfill or by methods approved by state and local authorities.

---

#### SECTION 8 SPECIAL PROTECTION INFORMATION

---

TLV(R) OR SUGGESTED CONTROL VALUE: No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. The inert ingredient is clay which is considered a nuisance dust. The ACGIH TLV for nuisance dust is 10 mg/m<sup>3</sup>. The OSHA PEL for nuisance dust is 15 mg/m<sup>3</sup> with 5 mg/m<sup>3</sup> for the respirable fraction.

Zeneca Inc. operates its facilities such that employee exposure to the active ingredient is limited to below 0.4 mg/M<sup>3</sup>.

VENTILATION: This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product reformulation or repackaging), employee exposure should be minimized using traditional techniques such as enclosed system design and/or local exhaust ventilation.

RESPIRATORY PROTECTION: If needed, use MSHA/NIOSH approved respirator for pesticides.

PROTECTIVE CLOTHING: Skin contact should be prevented through the use of impervious gloves, footwear, long-sleeved clothing, and wide brimmed hat. Remove contaminated clothing and wash before rewearing.

EYE PROTECTION: Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a faceshield, selected in regard to exposure potential.

OTHER PROTECTIVE EQUIPMENT: Eyewash and safety shower easily accessible to the work area.

---

#### SECTION 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

---

SPECIAL PRECAUTIONS OR OTHER COMMENTS: Do not store within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container. Prevent skin and eye contact with this material. Avoid inhalation of spray mist. Showers at the end of the work day are desirable. Workers must follow good personal hygiene practices. Wash with soap and water immediately after use or contact. Do not eat, drink, or smoke in areas where the material is being used. Keep food and animal feed in separate area away from the storage/use location.

PRODUCT:2463500-CS6/5LB \*OBS GREENVIEW PREEN GROUND COVER CS (CONTD)  
MSDS NO.: 5833

-----  
SECTION 10 REGULATORY INFORMATION  
-----

TSCA (TOXIC SUBSTANCES CONTROL ACT) REGULATIONS, 40 CFR 710): This product is a pesticide and is exempt from TSCA regulation.

CERCLA AND SARA REGULATIONS (40 CFR 355, 370, AND 372): Section 313 Supplier Notification. This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-know Act of 1986 and of 40 CFR 372: 2.3% EPTC (CAS 759-94-4)

\*\*\* The product contains 2.3% of EPTC (CAS 759-94-4) whose reportable quantity is currently set at one pound.

EPA Registration No.: 10182-172-961

The information herein is given in good faith but no warranty, expressed or implied, is made.

\*\*\* This line or section contains revisions or new statements since the last issue date.

-----  
ADDITIONAL/IMPORTANT INFORMATION  
-----

Manufacturer Approval of this MSDS is pending.